M. Mossiich



RAW SEQUENCE LISTING DATE: 04/16/2002 PATENT APPLICATION: US/09/461,537 TIME: 16:03:11

Input Set : N:\Crf3\RULE60\09461537.raw Output Set: N:\CRF3\04162002\I461537.raw

SEQUENCE LISTING

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3 (1) GENERAL INFORMATION:
             (i) APPLICANT: Royer, John C
      6
                            Moyer, Donna L
      7
                            Yoder, Wendy T
      8
                            Shuster, Jeffrey R
     10
            (ii) TITLE OF INVENTION: NON-TOXIC, NON-TOXIGENIC, NON-PATHOGENIC
                                     FUSARIUM EXPRESSION SYSTEM
     11
           (iii) NUMBER OF SEQUENCES: 16
     13
            (iv) CORRESPONDENCE ADDRESS:
     15
                  (A) ADDRESSEE: Novo Nordisk of North America, Inc.
     16
                  (B) STREET: 405 Lexington Avenue, 64th Floor
     17
     18
                  (C) CITY: New York
                  (D) STATE: New York
     19
                  (E) COUNTRY: USA
     20
                                                                    ENTERED
     21
                  (F) ZIP: 10174-6401
             (V) COMPUTER READABLE FORM:
     23
     24
                  (A) MEDIUM TYPE: Floppy disk
     25
                  (B) COMPUTER: IBM PC compatible
                  (C) OPERATING SYSTEM: PC-DOS/MS-DOS
     26
     27
                  (D) SOFTWARE: PatentIn Release #1.0, Version #1.30
     29
            (vi) CURRENT APPLICATION DATA:
                  (A) APPLICATION NUMBER: US/09/461,537
C--> 30
C--> 31
                  (B) FILING DATE: 15-Dec-1999
     32
                  (C) CLASSIFICATION:
     35
           (vii) PRIOR APPLICATION DATA:
                  (A) APPLICATION NUMBER: 08/816,915
     36
     37
                  (B) FILING DATE: 13-MAR-1997
          (viii) ATTORNEY/AGENT INFORMATION:
     41
     42
                  (A) NAME: Agris Dr., Cheryl H.
     43
                  (B) REGISTRATION NUMBER: 34,086
                  (C) REFERENCE/DOCKET NUMBER: 4216.240-US
            (ix) TELECOMMUNICATION INFORMATION:
     46
                  (A) TELEPHONE: 212-867-0123
     47
     48
                  (B) TELEFAX: 212-878-9655
     51 (2) INFORMATION FOR SEQ ID NO: 1:
             (i) SEQUENCE CHARACTERISTICS:
     53
                 (A) LENGTH: 30 base pairs
     54
     55
                  (B) TYPE: nucleic acid
     56
                  (C) STRANDEDNESS: single
     57
                  (D) TOPOLOGY: linear
     59
            (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1:
     61 TGCGGATCCA TGGTCAAGTT CGCTTCCGTC
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64 (2) INFORMATION FOR SEQ ID NO: 2:
66
        (i) SEQUENCE CHARACTERISTICS:
6.7
             (A) LENGTH: 30 base pairs
68
             (B) TYPE: nucleic acid
69
             (C) STRANDEDNESS: single
70
             (D) TOPOLOGY: linear
72
       (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2:
                                                                            30
74 GACCTCGAGT TAAGCATAGG TGTCAATGAA
   (2) INFORMATION FOR SEQ ID NO: 3:
        (i) SEQUENCE CHARACTERISTICS:
80
             (A) LENGTH: 998 base pairs
81
             (B) TYPE: nucleic acid
82
             (C) STRANDEDNESS: single
83
             (D) TOPOLOGY: linear
       (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3:
87 ATCATCAACC ACTCTTCACT CTTCAACTCT CCTCTTTGG ATATCTATCT CTTCACCATG
                                                                            60
89 GTCAAGTTCG CTTCCGTCGT TGCACTTGTT GCTCCCCTGG CTGCTGCCGC TCCTCAGGAG
                                                                           120
91 ATCCCCAACA TTGTTGGTGG CACTTCTGCC AGCGCTGGCG ACTTTCCCTT CATCGTGAGC
                                                                           180
93 ATTAGCCGCA ACGGTGGCCC CTGGTGTGGA GGTTCTCTCC TCAACGCCAA CACCGTCTTG
                                                                           240
95 ACTGCTGCCC ACTGCGTTTC CGGATACGCT CAGAGCGGTT TCCAGATTCG TGCTGGCAGT
                                                                           300
97 CTGTCTCGCA CTTCTGGTGG TATTACCTCC TCGCTTTCCT CCGTCAGAGT TCACCCTAGC
                                                                           360
99 TACAGCGGAA ACAACAACGA TCTTGCTATT CTGAAGCTCT CTACTTCCAT CCCCTCCGGC
                                                                           420
101 GGAAACATCG GCTATGCTCG CCTGGCTGCT TCCGGCTCTG ACCCTGTCGC TGGATCTTCT
                                                                            480
103 GCCACTGTTG CTGGCTGGGG CGCTACCTCT GAGGGCGGCA GCTCTACTCC CGTCAACCTT
                                                                            540
105 CTGAAGGTTA CTGTCCCTAT CGTCTCTCGT GCTACCTGCC GAGCTCAGTA CGGCACCTCC
                                                                            600
107 GCCATCACCA ACCAGATGTT CTGTGCTGGT GTTTCTTCCG GTGGCAAGGA CTCTTGCCAG
                                                                            660
109 GGTGACAGCG GCGGCCCCAT CGTCGACAGC TCCAACACTC TTATCGGTGC TGTCTCTTGG
                                                                            720
111 GGTAACGGAT GTGCCCGACC CAACTACTCT GGTGTCTATG CCAGCGTTGG TGCTCTCCGC
                                                                            780
113 TCTTTCATTG ACACCTATGC TTAAATACCT TGTTGGAAGC GTCGAGATGT TCCTTGAATA
                                                                            840
115 TTCTCTAGCT TGAGTCTTGG ATACGAAACC TGTTTGAGAA ATAGGTTTCA ACGAGTTAAG
                                                                            900
117 AAGATATGAG TTGATTTCAG TTGGATCTTA GTCCTGGTTG CTCGTAATAG AGCAATCTAG
                                                                            960
119 ATAGCCCAAA TTGAATATGA AATTTGATGA AAATATTC
                                                                            998
122 (2) INFORMATION FOR SEQ ID NO: 4:
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              (A) LENGTH: 248 amino acids
125
126
              (B) TYPE: amino acid
127
              (C) STRANDEDNESS: single
128
              (D) TOPOLOGY: linear
130
        (ix) FEATURE:
131
              (A) NAME/KEY: Protein
132
              (B) LOCATION: 1..224
134
        (ix) FEATURE:
135
              (A) NAME/KEY: Peptide
136
              (B) LOCATION: -24..0
137
              (D) OTHER INFORMATION: /product= "OTHER"
138 /note= "Label=pre-propeptide"
140
        (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4:
142
         Met Val Lys Phe Ala Ser Val Val Ala Leu Val Ala Pro Leu Ala Ala
143
                         -20
                                              -15
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RAW SEQUENCE LISTING DATE: 04/16/2002 PATENT APPLICATION: US/09/461,537 TIME: 16:03:11

Input Set : N:\Crf3\RULE60\09461537.raw
Output Set: N:\CRF3\04162002\1461537.raw

| 145 146 | Ala | Ala | Pro | Gln | Glu | Ile | Pro | Asn | Ile 1 | Val | Gly | Gly | Thr 5 | Ser | Ala | Ser | |
|------------|-----------|------------|----------|------------|----------------------|-------|-----------|-----------|-----------|-------|-------|-----------|----------|--------------|--------------|-----|------------|
| 148 | Ala | | Asp | Phe | Pro | Phe | | Val | Ser | Ile | Ser | | Asn | Gly | Gly | Pro | |
| 149 151 | Trp | 10 Cvs | Gly | Glv | Ser | Leu | 15 Leu | Asn | Ala | Asn | Thr | 20 Val | Leu | Thr | Ala | Ala | |
| 152 | 25 | -1- | 1 | 1 | | 30 | | | | | 35 | | | | | 40 | |
| 154 | His | Cys | Val | Ser | Gly | Tyr | Ala | Gln | Ser | Gly | Phe | Gln | Ile | Arg | Ala | Gly | |
| 155 | _ | _ | _ | _ | 45 | _ | | | | 50 | _ | _ | _ | _ | 55 | | |
| 157 158 | Ser | Leu | Ser | Arg 60 | Thr | Ser | GLy | Gly | Ile 65 | Thr | Ser | Ser | Leu | Ser 70 | Ser | Val | |
| 160 | Ara | Val | His | | Ser | Tvr | Ser | Glv | | Asn | Asn | Asp | Leu | | Tle | Leu | |
| 161 | *** 9 | , | 75 | | 552 | -1- | 201 | 80 | | | | | 85 | | | 200 | |
| 163 | Lys | Leu | Ser | Thr | Ser | Ile | Pro | Ser | Gly | Gly | Asn | Ile | Gly | Tyr | Ala | Arg | |
| 164 | | 90 | | | | | 95 | | | | | 100 | | | | | |
| 166 | | Ala | Ala | Ser | Gly | | Asp | Pro | Val | Ala | | Ser | Ser | Ala | Thr | | |
| 167 | 105 | a 1 | | a 1 | | 110 | | 01 | 03 | 01 | 115 | a | m1 | D | **- 1 | 120 | |
| 169 170 | Ala | GTĀ | Trp | GIA | 125 | Tnr | ser | GIU | GIY | 130 | ser | ser | Thr | Pro | 135 | ASI | |
| 172 | Len | T.eu | Lys | Val | | Va l | Pro | Tle | Val | | Ara | Δla | Thr | Cvs | | Δla | |
| 173 | Dea | Dea | 1170 | 140 | | , u + | 110 | 110 | 145 | 001 | 9 | | | 150 | 9 | | |
| 175 | Gln | Tyr | Gly | Thr | Ser | Ala | Ile | Thr | Asn | Gln | Met | Phe | Cys | Ala | Gly | Val | |
| 176 | | | 155 | | | | | 160 | | | | | 165 | | | | |
| 178 | Ser | | Gly | Gly | Lys | Asp | | Cys | Gln | Gly | Asp | | Gly | Gly | Pro | Ile | |
| 179 | | 170 | _ | _ | _ | | 175 | | | | | 180 | _ | | _ | | |
| 181 | | Asp | Ser | Ser | Asn | | Leu | Ile | GTA | Ala | | Ser | Trp | GTA | Asn | _ | |
| 182 184 | 185 | ח ד ה | 7 ~~ | Dro | λan | 190 | Cor | C1., | 17 n l | Пттъ | 195 | Cor | Wa 1 | C1** | ת 1 ת | 200 | |
| 185 | Cys | нта | Arg | PIO | 205 | ıyı | Ser | СТА | Val | 210 | нта | ser | Val | Сту | 215 | Leu | |
| 187 | Ara | Ser | Phe | Tle | | Thr | Tvr | Ala | | 210 | | | | | 213 | | |
| 188 | 9 | | | 220 | | | -1- | | | | | | | | | | |
| | (2) INFO | RMAT | ION I | FOR S | SEQ : | D NO |): 5 | ; | | | | | | | | | |
| 193 | (i) | SEQ | JENCI | E CHA | ARACI | reris | STICS | 3: | | | | | | | | | |
| 194 | | (A |) LE | NGTH | : 120 |)6 ba | ase p | pairs | 3 | | | | | | | | |
| 195 | | |) TYI | | | | | | | | | | | | | | |
| 196 | | | | | | | | | | | | | | | | | |
| 197 | · . | |) TO | | | | | | | | | | | | | | |
| 199 | (xi) | | | | | | | | | | \ | ישככי | vт СС | איניניינייני | יאארי | ۸ | 60 |
| | TACGGTGA | | | | | | | | | | | | | | | | 120 |
| | GCAAAGTC | | | | | | | | | | | | | | | | 180 |
| | TCCAAAAG' | | | | | | | | | | | | | | | | 240 |
| | GAACTAGT | | | | | | | | | | | | | | | | 300 |
| 211 | CTAGTGGG | AT C | GACA | SAAA | A GA | 'AAG | ACGG | AGA | raga'i | GC : | CATG | TTG | GA AC | GTAC | GGG <i>I</i> | 4 | 360 |
| | TGGAATAG | | | | | | | | | | | | | | | | 420 |
| | TGACAGAC' | | | | | | | | | | | | | | | | 480 |
| | GCTATTGC | | | | | | | | | | | | | | | | 540 |
| | CATTGTGA | | | | | | | | | | | | | | | | 600 |
| | CAGATGCG | | | | | | | | | | | | | | | | 660 720 |
| 443 | TGCTGACG | JG A | I GH I (| JCTT(| . GG(| ATTE | MIC | GTAC | MICI | 116 (| JUUUU | GGAT | A A | occus. | AT CAP | 7 | 120 |

RAW SEQUENCE LISTING DATE: 04/16/2002 PATENT APPLICATION: US/09/461,537 TIME: 16:03:11

Input Set : N:\Crf3\RULE60\09461537.raw
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| 225 AGACACACTG TAGATCAGCT CTTCGATGAC TCTTACCAGC TTTATAATAA CATTCATCTT | 780 |
|---|------|
| 227 GAACGTCTTT TTCGTCCAGT GTTTACCTTT CGTCCTATTT ATCCGTCATA TCCACAGTGT | 840 |
| 229 TATTGGCGAT AGAGTTATCG ACTTTCCTCA TCGGGATACT GGCCCCTGCT GCCAAGGGCC | 900 |
| 231 TTATATGCCG ATCACTTTCA CGGGAGCATG ATAAGGTTAA TGCTTCTTCT GAATGCCGAA | 960 |
| 233 CTAGACTACG GAACAACGGA GCTTAGTACC AGAAAGGCAG GTACGCCTAT TCGCAAACTC | 1020 |
| 235 CGAAGATACA ACCAAGCAAG CTTATCGCGG GATAGTAACC AGAGAGGCAG GTAAGAAGAC | |
| 237 ACAACAACAT CCATAGCTAT GTAGATTCTC GAATATAAAA GGACCAAGAT GGACTATTCG | |
| 239 AAGTAGTCTA TCATCAACCA CTCTTCACTC TTCAACTCTC CTCTCTTGGA TATCTATCTC | |
| 241 TTCACC | 1206 |
| 244 (2) INFORMATION FOR SEQ ID NO: 6: | 1200 |
| 244 (2) INFORMATION FOR SEQ 15 NO. 0. 246 (i) SEQUENCE CHARACTERISTICS: | |
| · · | |
| | |
| 248 (B) TYPE: nucleic acid | |
| 249 (C) STRANDEDNESS: single | |
| 250 (D) TOPOLOGY: linear | |
| 252 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 6: | |
| 254 TAAATACCTT GTTGGAAGCG TCGAGATGTT CCTTGAATAT TCTCTAGCTT GAGTCTTGGA | |
| 256 TACGAAACCT GTTTGAGAAA TAGGTTTCAA CGAGTTAAGA AGATATGAGT TGATTTCAGT | |
| 258 TGGATCTTAG TCCTGGTTGC TCGTAATAGA GCAATCTAGA TAGCCCAAAT TGAATATGAA | 180 |
| 260 ATTTGATGGA AATATTCATT TCGATAGAAG CAACGTGAAA TGTCTAGCAG GACGAAAAGT | 240 |
| 262 AGATCAAGGC TGTTATGTTC CCCGACCAAC CTACCTTGAT GTCAGTCTGC GAGTCGTGTG | 300 |
| 264 CAGTGACCCA GAATGATGGA TTGACTTGGA CATTTTCTGT CTATGAAGTA TTATGAACAT | 360 |
| 266 GAATATCGTT TCCTCATTAT CTATGTTGGC AGCCTAAAGT TTTACCATAT AGCTAGCAAT | 420 |
| 268 CAGTCAAGTA TCTGCGTATG AAGGGTTGTT AAGCCAGGAC GGTATCAGCG TTGAATATTT | 480 |
| 270 AAAGAATGAT ATGAGATAAT CAACATTGAC ATGATAAAAG AAAAGGGGAA ACAAATTGTG | 540 |
| 272 CATATAGTAA AGACTTCAGG TCGACCCCTC AATAGACATA TGCGAACCGA AAACCAACAG | |
| 274 GATACAATTT ATAGATAAGT ATAACTACAG TTATCTGTCT GCCGAACAAA TACTCTTTTG | |
| 276 TGAAACAAAT GAAGAGTACA TAAGCTACAG TTCCTCAGTA GGAACATCCT TTACAATAAC | |
| 278 TCCCTTGACT TCCTTCAGCT TCTCAATAGC CTCCAAAGTC ATCGGTCTGC CATCAAGGCA | · · |
| 280 CGTCAGCTCT GGTGTAGCAT ACAGCAGTGC CATACTTACG GAGGATAGGA AGTGGGAGGA | |
| 282 ATCGTTCGTG TCTGCCTCCA AAAATCGACA CCAGTGTCCT TTTTGACGAT ACTGATATGG | |
| 284 TGGTAAGCTT GGGAGTCTAT TGTTGACGTT GCATCACTTA CTTAAGCACG GTTTCATTCC | |
| · | |
| 286 TCTGCTGATA GTCCTCCAAC TTCTCGAAGT CGTAAACGAT GGCCTATAGT ATCTTATTGA | |
| 288 GAAATATGTC TTCTCAGAAA ATTATATCTT GTTTACCTTT CGGTCCGCCA TGGCTGCTAA | |
| 290 AACTGCTGGG AAATTCAAAA GCGCAGCACA AGCAGCAAGA GTGATGGGCA CAACGTGATA | |
| 292 TGTTGATAAA AGCATCAGTA TCGATAAGTT CCACTCAGAA ACCTGCAG | 1188 |
| 295 (2) INFORMATION FOR SEQ ID NO: 7: | |
| 297 (i) SEQUENCE CHARACTERISTICS: | |
| 298 (A) LENGTH: 1060 base pairs | |
| 299 (B) TYPE: nucleic acid | |
| 300 (C) STRANDEDNESS: single | |
| 301 (D) TOPOLOGY: linear | |
| 303 (ix) FEATURE: | |
| 304 (A) NAME/KEY: CDS | |
| 305 (B) LOCATION: 10924 | |
| 307 (ix) FEATURE: | |
| 308 (A) NAME/KEY: mat_peptide | |
| 309 (B) LOCATION: 73924 | |
| 311 (ix) FEATURE: | |
| | |

RAW SEQUENCE LISTING DATE: 04/16/2002 PATENT APPLICATION: US/09/461,537 TIME: 16:03:11

Input Set : N:\Crf3\RULE60\09461537.raw
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| 312 | | | (i | A) N | AME/I | KEY: | siq | pepi | tide | | | | | | | | |
|-----|------|-----|-----|-------|-------|------|-----|------|------|-----|-----|-----|-------------|------|-------|-------|-----|
| 313 | | | | | | | | | | | | | | | | | |
| 315 | | | | | | | | | | | | | | | | | |
| | GGA: | - | - | | | | | | | | | | CC G | TT G | rg go | CC | 48 |
| 318 | | | | | | | | | | | | | | | al A | | |
| 319 | | | | 21 - | - | | | | | 15 | | | | | 10 | | |
| | GCC | CTG | | | | GCC | СТТ | GCC | | | GGC | AGG | TCC | | | TAC | 96 |
| | Ala | | | | | | | | | | | | | | | | |
| 323 | | | | - 5 | | | | | 1 | | 1 | 5 | 5 | | 5 | - 1 - | |
| | TGG | GAC | TGC | TGC | AAG | CCT | TCG | TGC | _ | TGG | GCC | AAG | AAG | GCT | CCC | GTG | 144 |
| | Trp | | | | | | | | | | | | | | | | |
| 327 | | 10 | | - 2 - | -1- | | 15 | - 1 | 1 | | | 20 | | | | | |
| 329 | AAC | CAG | CCT | GTC | TTT | TCC | TGC | AAC | GCC | AAC | TTC | CAG | CGT | ATC | ACG | GAC | 192 |
| | Asn | | | | | | | | | | | | | | | | |
| 331 | 25 | | | | | 30 | - | | | | 35 | | - | | | 40 | |
| 333 | TTC | GAC | GCC | AAG | TCC | GGC | TGC | GAG | CCG | GGC | GGT | GTC | GCC | TAC | TCG | TGC | 240 |
| | Phe | | | | | | | | | | | | | | | | |
| 335 | | - | | - | 45 | - | - | | | 50 | - | | | - | . 55 | - | |
| 337 | GCC | GAC | CAG | ACC | CCA | TGG | GCT | GTG | AAC | GAC | GAC | TTC | GCG | CTC | GGT | TTT | 288 |
| 338 | Ala | Asp | Gln | Thr | Pro | Trp | Ala | Val | Asn | Asp | Asp | Phe | Ala | Leu | Gly | Phe | |
| 339 | | _ | | 60 | | _ | | | 65 | _ | _ | | | 70 | _ | | |
| 341 | GCT | GCC | ACC | TCT | ATT | GCC | GGC | AGC | AAT | GAG | GCG | GGC | TGG | TGC | TGC | GCC | 336 |
| | Ala | | | | | | | | | | | | | | | | |
| 343 | | | 75 | | | | - | 80 | | | | _ | 85 | _ | _ | | |
| 345 | TGC | TAC | GAG | CTC | ACC | TTC | ACA | TCC | GGT | CCT | GTT | GCT | GGC | AAG | AAG | ATG | 384 |
| 346 | Cys | Tyr | Glu | Leu | Thr | Phe | Thr | Ser | Gly | Pro | Val | Ala | Gly | Lys | Lys | Met | |
| 347 | | 90 | | | | | 95 | | | | | 100 | | | | | • |
| 349 | GTC | GTC | CAG | TCC | ACC | AGC | ACT | GGC | GGT | GAT | CTT | GGC | AGC | AAC | CAC | TTC | 432 |
| 350 | Val | Val | Gln | Ser | Thr | Ser | Thr | Gly | Gly | Asp | Leu | Gly | Ser | Asn | His | Phe | |
| 351 | 105 | | | | | 110 | | | | | 115 | | | | | 120 | |
| 353 | GAT | CTC | AAC | ATC | CCC | GGC | GGC | GGC | GTC | GGC | ATC | TTC | GAC | GGA | TGC | ACT | 480 |
| 354 | Asp | Leu | Asn | Ile | Pro | Gly | Gly | Gly | Val | Gly | Ile | Phe | Asp | Gly | Cys | Thr | |
| 355 | | | | | 125 | | | | | 130 | | | | | 135 | | |
| 357 | CCC | CAG | TTC | GGC | GGT | CTG | CCC | GGC | CAG | CGC | TAC | GGC | GGC | ATC | TCG | TCC | 528 |
| 358 | Pro | Gln | Phe | Gly | Gly | Leu | Pro | Gly | Gln | Arg | Tyr | Gly | Gly | Ile | Ser | Ser | |
| 359 | | | | 140 | | | | | 145 | | | | | 150 | | | |
| 361 | CGC | AAC | GAG | TGC | GAT | CGG | TTC | CCC | GAC | GCC | CTC | AAG | CCC | GGC | TGC | TAC | 576 |
| 362 | Arg | Asn | Glu | Cys | Asp | Arg | Phe | Pro | Asp | Ala | Leu | Lys | ${\tt Pro}$ | Gly | Cys | Tyr | |
| 363 | | | 155 | | | | | 160 | | | | | 165 | | | | |
| 365 | TGG | CGC | TTC | GAC | TGG | TTC | AAG | AAC | GCC | GAC | AAT | CCG | AGC | TTC | AGC | TTC | 624 |
| 366 | Trp | Arg | Phe | Asp | Trp | Phe | Lys | Asn | Ala | Asp | Asn | Pro | Ser | Phe | Ser | Phe | |
| 367 | | 170 | | | | | 175 | | | | | 180 | | | | | |
| | CGT | | | | | | | | | | | | | | | | 672 |
| 370 | Arg | Gln | Val | Gln | Cys | Pro | Ala | Glu | Leu | Val | Ala | Arg | Thr | Gly | Cys | Arg | |
| 371 | | | | | | 190 | | | | | 195 | | | | | 200 | |
| | CGC | | | | | | | | | | | | | | | | 720 |
| 374 | Arg | Asn | Asp | Asp | Gly | Asn | Phe | Pro | Ala | | Gln | Ile | Pro | Ser | Ser | Ser | |
| 375 | | | | | 205 | | | | | 210 | | | | | 215 | | |
| 377 | ACC | AGC | TCT | CCG | GTC | AAC | CAG | CCT | ACC | AGC | ACC | AGC | ACC | ACG | TCC | ACC | 768 |

VERIFICATION SUMMARY

PATENT APPLICATION: US/09/461,537

DATE: 04/16/2002 TIME: 16:03:12

Input Set : N:\Crf3\RULE60\09461537.raw
Output Set: N:\CRF3\04162002\1461537.raw

L:30 M:220 C: Keyword misspelled or invalid format, [(A) APPLICATION NUMBER:] L:31 M:220 C: Keyword misspelled or invalid format, [(B) FILING DATE:]